

ABSTRACT

The invention relates to a high-temperature sensor, which can be used at temperatures of at least 600 °C and comprises a metallic protective tube and a measuring resistance that is surrounded by a ceramic powder. The measuring resistance (1.1) is connected to the electric cable by means of stress-relieved measuring resistance connecting wires (1.2) and internal conductors (4). The latter (4) are provided with a solid and/or flexible insulation consisting of a ceramic material. The measuring resistance (1) and the internal conductors (4) are arranged in a metallic protective tube (8), which narrows (8.1) in the vicinity of the measuring resistance (1). The ceramic powder (6) contains admixtures of oxygen-giving oxide compounds.